Appl. No. 09/438,856 Amdt. Dated 05/18/2005 Reply to Office Action of 11/18/2004

Appendix I

Definition of Power Supply Harper-Collins Dictionary of Electronics Copyright 1991 Page 244

THE HARPERCOLLINS DICTIONARY OF

ELECT<u>RO</u>NICS

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Séries Editor, Eugene Ehrlich



HarperPerennial

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Best Available Cop

This book is dedicated to Mrs. Eileen Murphy, whose husband, Daniel Murphy, was my colleague and friend for more than 30 years.

Dan's death came shortly after completion of this, our final collaboration.

Eugene Ehrlich

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ISBN 0-06-271528-3 ISBN 0-06-461022-5 (pbk.) Library of Congress 90-56001

91 92 93 94 95 CC/AC 5 4 3 2 1

Although the foundations of electrice teenth century, the technology that much a product of the twentieth development of electronics has occ 1950s. Prior to that time, the w coined and the topics that we now tronics were then classed as part of has changed from being a develop an all-pervading subject in its own sions and tangential topics as its greenineering science. The rapid rise has been brought about by the ultimeterated circuit itself was a bywhose effect has been much furth a man on the moon.

a man on the moon.

As happens with any science impid expansion; explanations and the development of the technolog brought with it a huge quantity of words that have vanished almost a of lasting value; and a few that, liked into everyday English, though Although the rate of growth of el the flow of new terms has been becomes easier to take stock and suse and which were transient. The sent slang words of the World Wa of modern electronics; in contrattempt to define and explain the modern electronics.

The book is intended to assist definitions of electronics terms. The dent, whether at school or in the dent.

POWER AMPLIFIER (PA)

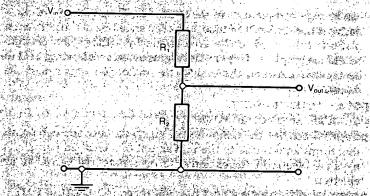


FIG. 73. Potential divider. See this entry

POTENTIAL DIFFERENCE and CURRENT $V \times I$: For AC systems, the quantities must be measured in ROOT MEAN SQUARE terms and be in phase.

power amplifier (PA) 1. a STACE that provides output POWER to a LOAD: 2. the final RF AMPLIFIER that provides POWER to the antenna from a transmitter. 3. the audio power amplifier stage that delivers the signal to the loudspeaker(s).

power component the in phase component of current or voltage.

power efficiency the ratio of output power to input power, particularly for a TRANSDUCER.

power factor the fraction by which the product $V \times I$ for AC signals must be multiplied to obtain true power. The power factor is equal to the cosine of the phase angle between voltage and current.

power gain the ratio of power output to power input for any device or circuit.

power pack a circuit that converts AC power supply voltage into low-voltage DC for an electronic device. The conventional power pack will consist of an AC power transformer RECTIFIERS and smoothing, possibly with voltage stabilization stages. See also reservoir CAPACITOR.

power supply the source of power for an electronic circuit that can be AC power, battery, solar cell, or other methods.

power transistor a TRANSISTOR de and dissipate heat efficiently. A pov area of collector in good thermal coallows the transistor to dissipate a that the case can be cooled by cond SINK.

PPI see PLAN POSITION INDICATOR
PPM see PULSE-POSITION MODULA
preamplifier (preamp) a STAGE of
age amplification, used in audio ar
amplifiers, the preamp handles a
inputs at various voltage levels. The
output will be of about the same an
The output of a preamplifier is no
of a POWER AMPLIFIER stage.

preemphasis a selective boostin Preemphasis is used before transr recording on tape or on disk. In al to be concentrated mainly at high f sized signal, the receiver or playba frequencies (DE-EMPHASIS) and the stores the treble to its correct levi preferred values a set of standard These are based on a logarithmic values for RESISTORS and CAPACITO of values is selected in a tolerance r no value of resistance or capacitar nominal 2K2 resistor, for example could have a value of up to 2K64, or of 3K3 could be as low as 2K64, a could be as high as 1K8. A range therefore be manufactured, and va The remaining components can th of 10% components, and the remai tolerance. See Fig. 74.

pre-pulse trigger a TRIGGER PULSI SCOPE. In a radar transmitter, for master pulse is generated and use